

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-35. (Canceled)

36. (Currently Amended) A method for determining a received channel power indicator (RCPI) in a wireless network, the method comprising:

measuring a received radio frequency power of a received signal in a selected channel ~~for at an antenna connector over a physical layer convergence protocol (PLCP) preamble~~; and

determining an N bit received channel power indicator (RCPI) parameter from the measured received radio frequency power, wherein the RCPI parameter is determined using a monotonically increasing logarithmic function.

37. (Previously Presented) The method of claim 36 wherein the measured received radio frequency power is measured by a PHY sublayer.

38. (Previously Presented) The method of claim 37 wherein the PHY sublayer is a direct sequence spread spectrum (DSSS) PHY sublayer.

39. (Previously Presented) The method of claim 37 wherein the PHY sublayer is an orthogonal frequency division multiplex (OFDM) PHY sublayer.

40. (Canceled)

41. (Currently Amended) The method of claim [[40]]\_36 wherein the monotonically increasing logarithmic function is defined in dBm.

42. (Previously Presented) The method of claim 36 wherein a value of the Nbit RCPI parameter is an 8 bit RCPI parameter.

43. (Previously Presented) The method of claim 42 wherein a value of the 8 bit RCPI parameter is in a range of 0 through 220.

44. (Previously Presented) The method of claim 43 wherein the 8 bit RCPI parameter value is rounded to a nearest 0.5 dBm.

45. (Previously Presented) The method of claim 44 wherein the 0 range value corresponds to -110dBm and the 220 range value corresponds to -0dBm.

46. (Previously Presented) The method of claim 41 wherein the measured received radio frequency power is measured to an accuracy of +/- 5dB.

47. (Currently Amended) A wireless transmit/receive unit (WTRU) configured to determine a received channel power indicator (RCPI) in a wireless network, the WTRU comprising:

an antenna configured to receive a wireless signal including a physical layer convergence protocol (PLCP) preamble;

a processor configured to:

measure a received radio frequency power of a received signal in a selected channel for at an antenna connector over a physical layer convergence protocol (PLCP) preamble; and

determine an N bit received channel power indicator (RCPI) parameter from the measured received radio frequency power, wherein the RCPI parameter is determined using a monotonically increasing logarithmic function.

48. (Previously Presented) The WTRU of claim 47 wherein the measured received radio frequency power is measured by a PHY sublayer.

49. (Previously Presented) The WTRU of claim 48 wherein the PHY sublayer is a direct sequence spread spectrum (DSSS) PHY sublayer.

50. (Previously Presented) The WTRU of claim 48 wherein the PHY sublayer is an orthogonal frequency division multiplex (OFDM) PHY sublayer.

51. (Canceled)

52. (Previously Presented) The WTRU of claim ~~[[51]]~~ 47 wherein the monotonically increasing logarithmic function is defined in dBm.

53. (Previously Presented) The WTRU of claim 47 wherein a value of the Nbit RCPI parameter is an 8 bit RCPI parameter.

54. (Previously Presented) The WTRU of claim 53 wherein a value of

the 8 bit RCPI parameter is in a range of 0 through 220.

55. (Previously Presented) The WTRU of claim 54 wherein the 8 bit RCPI parameter value is rounded to a nearest 0.5 dBm.

56. (Previously Presented) The WTRU of claim 55 wherein the 0 range value corresponds to -110dBm and the 220 range value corresponds to -0dBm.

57. (Previously Presented) The WTRU of claim 52 wherein the measured received radio frequency power is measured to an accuracy of +/- 5dB.

58. (New) The method of claim 36, wherein the radio frequency power of the received signal is measured over an entire frame.

59. (New) The method of claim 58, wherein the entire frame includes a Physical Layer Convergence Protocol (PLCP) preamble.

60. (New) The WTRU of claim 47, wherein the processor is configured to measure the radio frequency power of the received signal over an entire frame.

61. (New) The WTRU of claim 60, wherein the entire frame includes a Physical Layer Convergence Protocol (PLCP) preamble.